**Precalculus**

**Notes 5.3**

1. **Intro**

* To solve trig equations use algebra and isolate the trig function.

**Ex. 1:** Solve . Watch!

**Ex. 2:** Solve .

**Ex. 3:** Solve

(Since has a period of , first find all solutions in Then add to these solutions.

**Ex. 4:** Solve .

(Note: Don’t divide by This cause you to lose solutions!)

1. **Equations of the Quadratic Type**

* Factor if possible. If not possible, use the Quadratic Formula. QF: x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ex. 5:** Solve in the interval

**Ex. 6:** Solve .

**Ex. 7:** Solve for

(Note: When you square both sides, you could be bringing in extraneous solutions. Check solutions in original equation to see if they are valid.)

1. **Functions involving Multiple Angles**

**Ex. 8:** Solve .

**Ex. 9:** Solve

1. **Using Inverse Functions**

**Ex. 10:** Solve .